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| FORM PTO-1449 (REV. 7-80) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 200116.402C2 | | EXPRESS MAIL NO. EL755724303US | |
| INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i> | | | | APPLICANT Julie D. Saba et al. | | | |
| | | | | FILING DATE January 17, 2002 | | GROUP ART UNIT 1652 Not yet assigned | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| *EXAMINER INITIAL | AA | DOCUMENT NUMBER 5,430,169 | DATE 07/04/95 | NAME Boumendjel et al. | CLASS 558 | SUBCLASS 169 | FILING DATE IF APPROPRIATE |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO | | |
| DR | AB | WO 93/19760 | 10/14/93 | WIPO | | | |
| DR | AC | WO 99/16888 | 04/08/99 | WIPO | | | |
| OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i> | | | | | | | |
| DR | AD | Adams et al., GenBank Database, Accession No. AA338781, April 18, 1997. | | | | | |
| ↑ | AE | Amann et al., "Tightly Regulated <i>tac</i> Promoter Vectors Useful for the Expression of Unfused and Fused Proteins in <i>Escherichia coli</i> ," <i>Gene</i> 69(2):301-315, September 30, 1988. | | | | | |
| | AF | Fulton, GenBank Database, Accession No. U51031, March 23, 1996. | | | | | |
| | AG | Hillier et al., GenBank Database, Accession No. T86263, March 17, 1995. | | | | | |
| | AH | Kohara, Genbank Database, Accession No. D66593, December 13, 1995. | | | | | |
| | AI | Marra et al., GenBank Database, Accession No. AA107456, November 6, 1996. | | | | | |
| | AJ | Marra et al., GenBank Database, Accession No. AA589412, September 18, 1997. | | | | | |
| | AK | Marra et al., GenBank Database, Accession No. W08172, September 5, 1996. | | | | | |
| | AL | Qie et al., "Identification of a <i>Saccharomyces</i> Gene, <i>LCB3</i> , Necessary for Incorporation of Exogenous Long Chain Bases into Sphingolipids," <i>The Journal of Biological Chemistry</i> 272(26): 16110-16117, June 27, 1997. | | | | | |
| | AM | Saba et al., "The <i>BST1</i> Gene of <i>Saccharomyces cerevisiae</i> Is the Sphingosine-1-phosphate Lyase," <i>The Journal of Biological Chemistry</i> 272(42): 26087-26090, October 17, 1997. | | | | | |
| | AN | Sadahira et al., "Sphingosine 1-phosphate, a Specific Endogenous Signaling Molecule Controlling Cell Motility and Tumor Cell Invasiveness," <i>P.N.A.S. USA</i> 89(20): 9686-9690, October 15, 1992. | | | | | |
| DR | AO | Spiegel et al., "Sphingosine-1-phosphate, a Novel Second Messenger Involved in Cell Growth Regulation and Signal Transduction, Affects Growth and Invasiveness of Human Breast Cancer Cells," <i>Breast Cancer Research and Treatment</i> 31: 337-348, 1994. | | | | | |
| EXAMINER <i>Delia Ramirez</i> | | | | DATE CONSIDERED 10/15/03 | | | |
| * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s). | | | | | | | |

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| FORM PTO-1449* (REV. 1-80) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 200116.402C2 | EXPRESS MAIL NO. EL755724303US |
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| | | FILING DATE January 17, 2002 | GROUP ART UNIT Not yet assigned 1652 |

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|------|------|-------|----------|-------------------------------|
| | BA | | | | | | |
| | BB | | | | | | |
| | BC | | | | | | |
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| | BE | | | | | | |
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| | BH | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION | |
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| | | | | | YES | NO |
| | BI | | | | | |
| | BJ | | | | | |
| | BK | | | | | |
| | BL | | | | | |
| | BM | | | | | |
| | BN | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|--|
| DR | BO | Veldhoven and Mannaerts, "Sphingosine-Phosphate Lyase," <i>Advances in Lipid Research</i> 26:69-98, 1993. |
| DR | BP | Waterston, Genbank Database, Accession No. AAC69001, October 28, 1998. ✓ |
| DR | BQ | Zhou and Saba, "Identification of the First Mammalian Sphingosine Phosphate Lyase Gene and Its Functional Expression in Yeast," <i>Biochemical And Biophysical Research Communications</i> 242(3):502-507, January 26, 1998. ✓ |

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